```cpp
#include<iostream>
using namespace std;

bool binarysearch(int arr[], int start, int end, int key){
    if(start>end)
    return false;
    int mid = (start+end)/2;
    if(mid==key){
        return mid;
    }
    else if(mid>key){
        return binarysearch(arr, 0, mid-1, key);
    }
    else{
        return binarysearch(arr, mid+1, end, key);
    }
}

int main(){
    int arr[5] = {2,7,4,9,6};
    int key;
    cin>>key;
    bool mid = binarysearch(arr, 0, 5, key);
    if(mid){
        cout<<"True"<<endl;
    }
    else{
        cout<<"False"<<endl;
    }
}
```